

PHYSICS 12

ELECTRIC FIELD – practice

1. Consider two negative charges placed in vacuum and separated by 3.0m. Charge 1 is $-6.0 \mu\text{C}$ strong while charge 2 is only $-0.5 \mu\text{C}$. Find point P where the net electric field is zero.

2. How far from each other are q_1 and q_2 placed if the net electric field is zero 0.66m away from q_1 ?

$q_1 = 40 \mu\text{C}, q_2 = 15 \mu\text{C}$.

3. What is the charge on q_1 if the two negative charges are placed 1.0 m from each other, the net electric field is zero 0.25 m from q_1 and $q_2 = 20 \mu\text{C}$?

4. What is the net electric field at point P if the charges are separated by 3.0m?

